

PATENT Attorney Docket No.3.0-008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re F	Patent Application of	
Villafane et al		Group Art Unit: 1614 Examiner: R. Cook
Serial No.:09/653,717		
Filed:	September 1, 2000	RECEIVE
For:	Use of Nicotine or Derivative thereof for the Treatment of Neurologic Diseases, in particular Parkinson Disease	FEB 2 7 2004

DECLARATION PURSUANT TO 37 C.F.R. § 1.132

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

- I, Gabriel Salvadore VILLAFANE do hereby state and declare the following:
- 1. I am a co-inventor of the subject matter disclosed and claimed in the above-captioned application. I have ten (10) years of experience working in the field of Neurology. My Curriculum Vitae is attached as Exhibit 1.
- I have reviewed the latest Official Action mailed September 16, 2003. It appears to me that in this Official Action the Examiner deems that the abovecaptioned patent application is obvious in the absence of unexpected results. We have obtained results and have observed them in patients which were administered with 0.2 mg to 5 mg per day per kilogram of body weight of nicotine and L-DOPA in a dose at least 30% lower than the effective dose when L-DOPA is administered in the absence of nicotine.

- 3. The patients chosen for this study had the following characteristics. The patients have had Parkinson Disease for a period of about 5 to 12 years. All of the patients chosen for this study were non smokers. Their ages ranged from 48 to 65 and the patients were previously treated with a classical treatment of L-DOPA, in addition to other classical medications. Neurological examination of these patients showed classical Parkinson Disease symptoms including severe motor, vegetative and cognitive symptoms. They presented at least some of the classical symptoms of Parkinson Disease which are bilateral akinesia, rigidity, arm tremors, gait and speech disturbances, masked faces, urological problems, sebaceous excess on the skin and disorganized thinking. Clinical evaluation of the patients having Parkinson's disease was carried out using conventional UPDRS I, II and III neurological tests. UPDRS stands for Unified Parkinson's Disease Rating Scale. A patient who has Parkinson's Disease has a UPDRS average of 42 without treatment. The observed results were compared with the UPDRS scale which is the following:
 - UPDRS results between 0-17 corresponded to a normal neuropsychological behavior;
 - UPDRS results between 17-32 relates to neuro-psychological symptoms of Parkinson's Disease;
 - UPDRS results superior to 32 corresponds to the Parkinson's Disease.

During the classical treatment with L-DOPA, patients have a meanUPDRS average of 24. Nevertheless, after about 5 years with L-DOPA treatment, secondary effects, like dyskinesia, Increase drastically and Parkinsonian symptoms reappear.

- 4. The patients in paragraph 3 were administered nicotine at month 2 transdermally at a rate of from 0.2 mg to 5 mg per day per kilogram of body weight and a reduced in a dose at least 30% lower than the effective dose when L-DOPA is administered alone. The amount of nicotine administered increased over the next three consecutive months and stabilized at month 5 to month 8. From month 8 to month 24, the nicotine dosage that was administered was gradually increased.
- 5. The observed results were the following. Partial improvement of all symptoms was observed in the majority of patients three (3) months after beginning of the treatment with nicotine. At month 5 individual UPDRS III "Off" score improved

from 42 to 33 (33/42), arm tremor was reduced (0/3) rigidity (0/2) gait (0/2) and speech (0/2) were all reduced. UDPRS I (mental state) changed significantly (0/10) and UDPRS II (daily life, on-off) improved in both "off" (10/22) and "on" (6/3) scores. After 6 months, a major improvement in daily life activities was observed by others. For example, one patient undertook working in the garden, cycling and swimming after treatment at 6 months, while these activities were suspended for several years before. In addition handwriting was improved, speech was clearer, vocal volume was stronger and expression of emotions was restored. Improvement in urinary and sexual functions, as well as mood and memory was observed. Furthermore, stabilization of the orthostatic blood pressure was also observed. After 24 months of treatment as set forth in paragraph 4, the following was observed in the patients. Complete disappearance for the first time of dystonia and dyskinesia. Cognitive function was improved, as well as antiretrograde and retrograde memory problems. Axial symptoms associated with Parkinson's Disease such as voice articulation, phonation, walking equilibrium and turning right and left were also improved. Urological symptoms improved to such a degree that urological consultations were suspended. The skin quality was less sebaceous.

6. Besides the above study, another study was undertaken using functional imaging of the dopamine transporter (DAT), which defines the integrity of the dopaminergic system. 6 patients having Parkinson's Disease at stage IV of Hoehn and Yahr that were previously administered the classical treatment of L-DOPA (see, paragraph 7 below) were given a control DaTScan prior to the administering the treatment set forth in paragraph 4 above for only 8 months. After 8 months the DaTScan was repeated and revealed an increase of D1 and D2 pre-synaptic dopaminergic receptors in the nigrostriatum zone and thus a restructuration of this area. The DaTScan was administered as follows: first of all, the patients received potassium iodide orally to block the thyroid before intravenous injection of 153MBq [1231]-FP-CIT (DaTScan, Amersham Health, FR); second, the brain SPECT (Single Photon Emission Computed Tomography) was performed 3 hours later using a dual-head camera, equipped with high-resolution collimators, in 128 x 128 matrices and for a total imaging time of 45 minutes. Quantification of striatal uptake was performed by means of circular regions of interest, drawn over the caudate nucleus, putamen

and occipital cortex. The ratio of specific striatal uptake to non displaceable uptake was calculated as an estimate of the dopamine receptor binding potential (BP).

- 7. The classical procedure used for Parkinson's disease patients is the administration of levadopa (L-DOPA). L-DOPA was introduced into clinical practice around 1967 and its administration was seen to be effective in improving akinesia and postural disorders in about 75% of patients, but its administration rarely improves rest tremor. Pharmacologically, L-DOPA is known to increase dopamine levels in the striatum and restores neurotransmitter balance between dopamine and acetylcholine. Nowadays, L-DOPA is often given in combination with a carboxylase inhibitor (carbidopa) which prevents destruction of L-DOPA in the bloodstream and peripheral tissues. Generally, a total dosage of L-DOPA from 300 mg to 2000 mg daily is administered to patients having Parkinson's disease. The dosage is progressively increased in accordance with the stage of the Parkinson's disease. The administration of L-DOPA, however does not address the underlying problem associated with Parkinson's disease, but only relieves some of the symptoms associated with this disease. Presently all patients diagnosed with Parkinson's disease will eventually require L-DOPA treatment.
- 8. The first side effects of patients treated with L-DOPA and/or L-DOPA and carbidopa are nausea, vomiting, abdominal pain, anxiety, agitation, difficulty in speaking, memory loss, distress, numbness, delusions, hallucinations, insomnia, orthostatic hypotension and sometimes arrhythmia. The major difficulties experienced by patients using this classical therapy over time include fluctuations or sudden variations in response to the drugs used, known as "on-off response", the development of akinesia (weakness or immobility) and dyskinesia/dystonia (difficulty in performing voluntary movements), which are very problematic as Parkinson's disease progresses. One-third to one-half of patients on the classical L-DOPA therapy experience progressive dementia, as well as visual and tactile hallucinations.
- 9. As set forth in paragraph 6 above, the classical treatment using L-DOPA did not show any improvement in an increase of D1 and D2 pre-synaptic dopaminergic receptors in the nigrostriatum zone and thus a restructuration of this area. Hence, this treatment does not have an effect on the underlying disease of Parkinson's.

- 10. The Domino et al reference teaches that 12.5 mg/kg, a dose chosen since it provided effective relief of symptoms of Parkinson's disease when given alone, with various doses of nicotine. Although not noted in this reference, certainly some of the side effects as set forth in paragraph 8 above occurred in this monkey model, due to the dose of L-DOPA. If the same amount of L-DOPA (12.5 mg/kg) was administered to patients with Parkinson's disease, the side effects would be similar to those in paragraph 8.
- 11. In conclusion, it is observed that patients having Parkinson's disease, which were administered 0.2 mg to 5 mg per day per kilogram of body weight of nicotine and L-DOPA in a dose at least 30% lower than the effective dose when L-DOPA is administered in the absence of nicotine have improved symptoms such as a reduction in arm tremor, rigidity, gait and speech and an improvement in urinary and sexual functions, as well as mood and memory, in comparison with the classical treatment with L-DOPA. Moreover, an improvement of dopaminergic transporters at level of the striation, i.e., an improvement of dopamine uptake by D1 and D2 receptors was demonstrated using the treatment in the above-captioned patent application, while side effects of dyskinesia and akinesia were either totally abolished or improved.

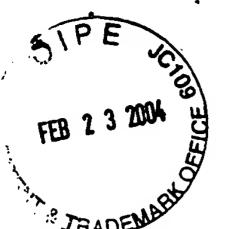
12. I further declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

Gabriel Salvador VILLAFANE

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CURRICULUM VITAE

Gabriel Salvador VILLAFANE

Date of Birth: December 21, 1961 in Cordoba (Argentina)

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Doctor of medicine (1987)

Qualification in Neurology (1990)

SUPERIOR STUDIES

Certificate so obtained

Assistant appointed to the chair of philosophy in the catholic university of Cordoba (01.03.1982 to 30.11.1982)

Assistant appointed to the chair of philosophy in the catholic university of Cordoba (01.03.1983 to 03.08.1984)

Assistant in the haematology department of Hospital Italiano

Doctor of medicine (September 10, 1987)

Qualification in Neurology (02.08.1987 to 09.09.1990) in the public hospital of Cordoba (Department of Health Hospital San Roque - Cordoba — Argentina) delivered by Dr. A.M. Lopez de Cardeilhac, responsible of the Neurology Department and Dr. S.M. Foglia the Hospital Director.

Foreign Doctor of Medicine of Paris Hospitals (31/10/1992)

ERUDITE SOCIETY

Member of the French Society of Neurology

TITLES AND HOSPITAL ACTIVITIES

May 1987	Medical Assistant in the Neurology Department of Hospital
•	<u> </u>

San Roque

Jan.1988 to Nov.1988 Doctor in the Urgency Department of Hospital San Roque Oct.1987 to Oct.1988 medical Assistant in the Clinical and Medical Department

of Hospital San Roque

June 1989 to Dec.1989 Doctor in the Urgency Department of Hospital San Roque

1991-1992 Intern in the Neurology Department of Hospital Mondor

(Pr. J-D Degos)

Since 1992	Team member of the Research on cerebral transplant in Parkinson's disease managed by Pr Cesaro – Neurology
	Department of Hospital Mondor
Since 1992	Full-time neurologist in the Neurology department (Pr.
	Degos) of Hospital Mondor
Since 1993	Weekly consultations in the Neurology Department (Pr.
	Degos) of Hospital Mondor
Since 1992-1996	Neurologist in the Neurology Department (Pr. Degos) of
	Hospital Mondor (Senior neurologist in the urgency
	Department)
Since 1995-1999	Part-time neurologist in the Medical and Nutrition
	Department (Pr. Jacotot) of Hospital Mondor
Since 1998	Full-time neurologist in the Neurology Department (pr.
	Louarn) of Hospital Albert Chenevier
	FORMILL ALLICORISM LUDGIT ALLOLOLOLO

PUBLICATIONS

P1: Long-term outcome of unilaterally transplanted parkinsonian patients. I. Clinical approach. G.Defer, C.Geny, F.Ricolfi, G.Fenelon, J-C Monfort, P.Remy, G.Villafane, R.Jeny,

Y.Samson, Y.Keravel, A.Gaston, J-D.Degos, M.Peschanski, P.Cesaro, J-P.Nguyen. Brain (1996) 119,41-50.

P2 : Speech improvement in a parkinsonian patient after bilateral mesencephalic intra-striatal graft. G.Villafane, G.Defer, J-P.Nguyen, P.Brugieres, J-C.Montfort, P.Remy, R.Jeny, J-

D.Degos, M.Peschanski, P.Cesaro.

Subjected

COMMUNICATIONS

C1: Unilater foetal grafting in 5 parkinsonian patients

G.defer, J-Pngyuen, G.Fenelon, C.Geny, F.Ricolfi, J-C.Montfort, P.Remy, Y.Samson, G.Villafane, P.Hantraye, R.Jeny, A.Gaston, Y.Keravel, J-D.Degos, M.Peschanski, P.Cesaro

Communication to the Caen's meeting of the French Society of Neurology, October 14, 1994.

C2: Unilateral foetal grafting in Parkinson's Disease: clinical results after 18 to 36 months of follow-up.

G.Defer, G.Fenelon, J-P.Nguyen, C.Geny, F.Ricolfi, G.Villafane, J-C.Montfort, P.Remy, Y.Samson, P.Hantraye, R.Jeny, A.Gaston, Y.Keravel, J-D.Degos, M.Peschanski, P.Cesaro.

Third Lille Neurosciences Workshop, October 20-21, 1994.

C3: Speech improvement in a parkinsonian patient after bilateral mesencephalic intra-striatal graft.

P.Cesaro, G.Defer, J-P.Ngyuen, P.Brigieres, J-C.Montfort, P.Remy, G.Villafane, R.Jeny, J-D.Degos, M.Peschanski. 6th International neuronal transplantation meeting, San Diego, February 1996.

C4: Long-term nicotine treatment in Parkinson'disease: report of 2 cases. G.Villafane, J-D.Degos, G.Lagrue, S.Petras, P.Cesaro. 6th International Congress of parkinson's disease and movement disorders, Barcelone, June 2000.

C5: Lon-term nicotine treatment in Parkinson'disease: report of cases after two years.

G.Villafane

XIV International Congress of Parkinson's Disease, Helsinki, Finland, July 28-31

2001.

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an-da' (än-dä'), an-da'-as'su (än-dä'äs'60), n. [Pg. a. dáaca, anda-assu, of Tupian origin; cf. Tupi andá-açu anda, fr. anda a certain tree + açu big.] A Brazilian timber tree (Joannesia princeps). The seeds yield anda oil. [an·da'ba·ta (ăn·dăb'à·tà), n.; pl. -TAE (-tē). [L.] Rom. Antiq. A gladiator who fought blindfolded by a helmet. an'da-ba-tar'i-an (ăn'dà-bà-târ'i-ăn), adj. Rom. Antiq. Of or pertaining to an andabata.

an-dab'a-tism (ăn-dăb'à-tlz'm), n. Blind contention. Obs. An'da-lu'sian (ăn'da-lu'zhăn; -shăn), adj. Of or pertaining to Andalusia or its people.

An'da lu'sian, n. 1. One of the people of Andalusia. 2. A domestic fowl of a Mediterranean breed similar to the Leghorn. The black and the white varieties when crossed produce a hybrid, the Blue Andalusian, with slaty-blue plumage and leaden-blue legs.

Andalusian school. Paint. A Spanish school dating from the middle of the 16th century and centering at Seville, chiefly under church patronage. It is represented by Roc-

las, Herrera the Elder, and Murillo. an'da-lu'site (an'da-lu'sīt), n. Mineral. A silicate of aluminum, Al₂SiO₄, usually in thick orthorhombic prisms, nearly square, of various colors. It was first discovered in Andalusia, Spain. Chiastolite is a variety. 11., 7.5. Sp. gr., 3.16-3.20. When transparent it is used as a gem.

gr., 3.16-3.20. When transparent it is used as a gem. An'da-man (ăn'dâ-măn; -măn), n. An individual of the native race of the Andaman Islands. The Andamans are one of the lowest races of mankind; their brain capacity is about 1250 to 1350 cc., their height is under five feet, their physical characteristics Negritic, and their languages unconnected with any known family of speech. — An'da-man, adj. — An'da-man-e53' (-măn-ēz'; -ēs'), n., sing. & pl.—An'da-man-ese', adj.

Andaman redwood. Amboina wood.

Andaman redwood. Amboina wood.

an-dan'te (iin-diin'ta; an-dan'te), adj. [It., lit., going.]

Music. Moderately slow, but flowing; quicker than lar-Music. Moderately slow, but flowing; quicker than larghetto, and slower than allegretto. — adv. In andante tempo. — n. A piece or movement in andante tempo. Andante is used in numerous phrases; as, ||an-dan'te mo'de-ra'to (mô'dâ-rā'tō), a little faster than andante, etc. an'dan-ti'no (ān'dān-tē'nō), adj. [It., dim. of andante.] Music. a Rather quicker than andante; between andante and allegretto. b Sometimes, somewhat slower than andante. — adv. In andantino tempo. — n. A piece or movement in andantino tempo; also, Rare, a short andante. An'da.qui' (ān'dā-kē'). n. An Indian of a group of tribes

An'da qui' (an'da ke'), n. An Indian of a group of tribes now dwelling in Colombia. An'da-qui', adj. 1. Of or pertaining to the Andaquis.

 $2. = \Lambda NDAQUIAN.$ An'da qui'an (-an), adj. Pertaining to or designating a South American linguistic family, comprising the Andaqui Indians, by some considered to be a branch of the Chibchas. See Chibena.

An-de'an (ăn-dē'ān; ăn'dê-ān), adj. Of, pertaining to, or like, the Andes. Hence, figuratively, lofty; grand. An-de'an, n. A native of the Andean region, South America -an'der (-an'der). [NL. -andrus. Sec -ANDROUS.] Bot. A

-an'uer (-an'der). [NL. -anarus. Sec -ANDROUS.] Bot. A combining form corresponding to -andria, denoting a member of a (specified) class, as in hexander.

[An'ders sein' (än'dërs zīn'), n. [G.] Philos. Another kind of being; a somewhat else; — in Hegelianism, the being of the Absolute considered as Nature.

||an'de-run' (an'de-roon'), n. [Per. andarūn inside (rooms), fr. andar inside.] Harem.

An'des ber'ry (an'dez). A bramble (Rubus glaucus) of tropical American highlands, having raspberrylike fruit.

Andarsia (andarah) adi Andara

An-de'sic (an-de'zlk), adj. Andean. an'des-ine (an'de-zin), n. Mineral. A triclinic feldspar intermediate between albite and anorthite, found in the Andes,

as an ingredient of andesite. H., 5-6. Sp. gr., 2.68-2.69. an'des-in-ite (-zin-it), n. [From Andesine.] Petrog. A leucocratic rock composed essentially of andesine. an'des-ite (-zīt), n. [From the Andes Mountains.] Petrog.
An extrusive, usually a dark-grayish rock, consisting essentially of an acid plagioclase, with augite, hornblende, hypersthene, or biotite.—an'des-it'ic (-zīt'īk), adj.

An'dhra (an'dra), n. [Skr., supposed to be the name of modern Telingana.] The southeastern part of India, now northern Madras Presidency; also, a man of this country, and, with Sanskrit writers, the Telugu and allied Dravidian languages there spoken. See Dravidian Languages.

An'di (an'di), n. An agglutinative language of the Caucasus with no known admity to other languages. — An'di-an

(-ăn), n. & adj.

An'dine (ăn'dĭn; -dīn), adj. Andean.

An-di'ra (ān-dī'rā), n. [NL., fr. Pg. andirā, fr. Tupi andirā.]

Bot. A genus of tropical American trees of the pea family (Fabaccae). Some species, as the cabbage tree A. inermis, yield good timber. Syn. Vounea poun. See ACAPO. an'di-ro'ba (an'di-ro'ba), n. [Sp. andiroba, Pg. andiroba, jandiroba, fr. Tupi andiroba, n(h) andiroba.] Crabwood. and'i'ron (and'ī'crn), n. [ME.

aundiren, aundyrne, aundyre, fr. OF. andier (F. landier), perh. fr. (assumed) Gaulish andera heifer (for meaning cf. G. feuerbock, lit., fire goat, and E. firedon); akin to W. anner young cow. The last part of the word was confused in E. with iron.] One of a pair of metal supports for firewood, used on a hearth. It consists of a horizontal bar mounted on short legs, one in the rear and two in front. A vertical shaft, often ornamented, surmounts

and/or. Either and or or. "Butter and for eggs" means "butter and for the spit. eggs, or butter or eggs." the front end.

an'dor ite (an'dor it), n. [After Andor von Semsey.]
Mineral. A silver, lead, antimony, and sulphur compound an'dorite (an'dorit), n. occurring in dark-gray or black prisms.

Various Types of Andirons

(18th century). 1 Ball-

ton: 2 Steeple-top; 3 Col

umn and Flame; 4 Gooseneck and Ball, with books

An'do-ro'bo (an'do-ro'bo), An'da-ro'bo (an'da-), n. A tribe of Bantu-speaking Negroes in British East Africa. An-dor'ran (an-dor'an), adj. Of or pertaining to Andorra. n. A native or inhabitant of Andorra.

[an'dou'ille (lin'dov'y'), n. [F.] A kind of sausage made of tripe or other entrails.

an'dou-illet' (an'doo-let'), |an'dou'illette' (an'doo'yet'), n. [F. andouillette.] A delicate sausage made of veal or tripe. An'do ver green (ăn'do ver). A color, yellow-green in hue, of low saturation and low brilliance. Cf. color.

an-ds/, or an-da/-as/su, oil (an- an-ds/ze (an-da/ze). Var. of EN-DATE. See PIK. andi.] Breath. An-dofee (an-dofea), s. = MI-Dofee, n. [UN. ands.] Breath. An-dofee (an-dofea), s. = MI-Dofee, n. [UN. ands.] To breathe; ands. = And darasio). Secon, Table I. [RAC.] an/da-rac, n. Corrupt. of SANDA-An-darko (In-darko), n. sing. & pl. See CADDO. An'da-ro'bo. Var. of Annorono. An-das'te (lo-dis'ti), n. = Con-

an'dra (-an'dra). [NL., neut. pl. of -andrus. See -AN- an-dra prous.] Bot. A suffix used to form generic names, denot- an-dra ing a (specified) type of stamen, as in Calliandra. An'dra Kain'ma ren (an'dra kam'a ren). [Sw.] chamber of the Swedish Parliament. See LEGISLATURE. an'dra-nat'o-my (ăn'dra-năt'ô-mi), n. [andr-+ anatomy.] Anthropotomy.

an'drarch-y (an'drar-ki), n. [andr-+-archy.] Government dominated by men.

An'dré' (än'drä'), n. [After Édouard André, French horti-culturist.] A variety of the feijon with aromatic, spicy fruit. An'dre-ae'a (ăn'drē-ē'à), n. [NL., after G. R. Androne, German botanist.] Bot. A genus of dark-colored alpine mosses, the sole representatives of a family, An'dre-ae-a'-ce-ae (-ê-ā'sê-ē), constituting an order, An'dre-ae-a'les (-ê-â'lez). Their capsules are 4-valved. See Muscr.

An'dre a Fer-ra'ra (an'dre d fe ra'ra). A Ferrara. An-dre'na (ăn-drē'nā), n. [NL., fr. Gr. anthrēnē hornet, wasp.] a A genus of bees, type of the family Andrenidae. b [not cap.; pl.-NAE (-nē).] Any bee of this genus. An-dren'i-dae (ān-drēn'f-dē), n. pl. [NL.] Zool. A large family of bees having short tongues. family of bees having short tongues. Most of them burrow in the ground, and all are solitary in their habits. — an'dre-

nid (ăn'drc.nid), n.

An'drew (ăn'drc.nid), n. [OF. Andrieu, Andreu (F. André), fr. L. Andreas, fr. Gr. Andreas; cf. ancr man. The "l syllable in OF. & E. was prob. influenced by that of Matthew (F. Mathieu).] 1. Literally, strong; manly; — masc. prop. name. L. Andreas (ăn'drc.ăs; ăn-drc.ăs); F. André (ăn'dra'), Andrieu (än'drc'û'); 1t. Andrea (än-drâ'ii); Sp. Andrés (än-drās'); Pg. André (ăn-drâ'); G. & D. Andreas (än-dra'iis). — Dim. Andy. — Abbr. And.

2. One of the twelve apostles, a browner of Simon Peter (Mark xiii. 3; John vi. 8). His feast or day is Nov. 30. See Saint, 3. He is the patron saint of Scotland. See Saint Andrew's cross.

3. Sailors' Slang. a A ship, esp. a man-of-war; — called

3. Sailors' Slang. a A ship, esp. a man-of-war; — called also Andrew Miller. b With the. The Royal Navy. 4. Obs. a A Ferrara. b A manservant; valet. an'drews-ite (an'drooz-it), n. [After Thomas Andrews (1813-85), Ir. chemist.] Mineral. A hydrous phosphate of copper and iron, close to chalcosiderite in composition. Andrews (an'dries) in form [I], the remain from Andrews

An'dri-a (an'dri-a), n. fcm. [L., the woman from Andros. See Gaz.] The title, and epithet of the heroine, of a comedy by Terence, performed 166 u.c.

-an'dri-a (-an'dri-a). [NL., fr. -andrus. See -ANDROUS.]

Bot. A suffix for Linnaean class names corresponding to adjectives in -androus, as in Hexandria.

An'dri-as (an'dri-as), n. [NL., fr. Gr. andrias image of a man, fr. andr man.] Paleontol. A genus of large fossil Miocene salamanders scarcely distinct from the recent genus Cryptobranchus. The first specimen found was considered the remains of a man destroyed by the Deluge.

an'dro- (an'dro-), andr-. A combining form, Greek andro-, andr-, from aner, andros, man, used to signify: a Man, man and, as in androphobia, androtomy, androtauric. b Male, masculine, relating to the male gender, as in androphore, andropetalous, andranatomy. c Bot. Of or pertaining to an anther or stamen, as in androecium. an'dro-cen'tric (-sen'trik), adj. [andro-+-centric.]
Centering or centered on or in the male; dominated by or emphasizing masculine interests or point of view; as, an androcentric society; - opposed to gynecocentric.

an'dro-ceph'a lous (-sel'à-lus), adj. [andro-+ cepha-lous.] Having a human head (upon an animal's body), as the Egyptian sphinx. an'dro-ceph'a-lum (-sel'à-lum), n.; pl. -LA (-là). [NL.]
Bot. The receptacle of the antheridia in certain Hepaticae.

an'dro-clin'i-um (-klin'i-um), n. [NL.] A clinandrium.

An'dro-clus, An'dro-cles (an'dro-klus, -klez), n. A Roman slave of the 1st century A.D., said to have been spared in the arena by a lion from whose foot he had extracted a thorn years before in Africa.

an'dro-co'ni-um (an'dro-kō'ni-um),

n.; pl.-conia (-à). [NL., fr. andro-+Gr. ko:ia dust.] Zool. Any of certain modified scales on the forewings of the male of some butter-

wings of the male of some butter-flies. In connection with certain glands they produce an odor. Cf. ALLURING GLAND.

an-droc'ra-cy (an-drok'ra-si), n-[andro-+-cracy.] Political and so-cial supremacy of men; — opp. to gynecocracy. See PATRIARCHY. an'dro-crat'ic (an'dro-krat'ik), adj.
an'dro-crate (an'dro-sit), n. [an-Glands; S Ordinary an'dro-cyte (an'dro-sit), n. [an-dro-+-cyte.] Bot. The cell which by modification becomes a

sperm cell; - corresponding to spermatid of animals. an'dro-di-oe'cious, di-e'cious (an'dro-di-c'shus), adj. [an-dro-+ dinectous.] Bot. Having perfect and staminate flowers on different plants.—an'dro-di-oe'cism (-siz'm), n. an'dro-dy'na-mous (-dī'nā-mus; -dīn'ā-), adj. [andro-+Gr. dynamis power.] Bot. Having abnormally developed

Scales. Much enlarged.

stamens, as some flowers. an-droe'ci-um (an-dre'shi-um; -si-um), n.; pl. -CIA (-a) [NL., fr. andr-+ Gr. oikos house.] The aggregate of microsporophylls in the flower of a seed plant; the stamens and their appendices collectively. - an-droe'cial (-shal), adj an'dro-gam'e-tan'gi-um (ăn'drô-găm'ê-tăn')ĭ-ŭm),n.[NL., fr. andro- + gamelangium.] Bot. An antheridium.

an'dro-ga-me'to-phore (-ga-me'tô-fôr; -gam'ê-tô-fôr'; 181), n. [andro- + gametophore.] Bot. A male plant; a plant bearing male sexual organs. an'dro-gen'e-sis (-jen'e-sis), n. [NL., ir. andro- + -genesis.] Biol. Development in which the egg contains only paternal chromosomes; - disting. from gynogenesis.

an'dro-ge-net'ic (-je-net'ik), adj. a Of or pertaining to androgenesis. b = ANDROGENOUS. an-drog'e-nous (an-droj'e-nus), adj. Bot. Producing males. an'dro-go'ni-a (an'dro-go'ni-a), n. pl. [NI. Sec ANDRO-; GONO-.] Bot. The parental cells from which sperm cells

arise. - an'dro-go'ni-al (-al), adj. An-drog'ra phis (an-drog'ra-sis), n. [NL., fr. andro-+ Gr. graphis stylus; - from the form of the filaments.] Bot. An-drog'ra-phis (an-drog'ra-lis), n. A genus of Indian plants of the acanthus family (Acanthaceae). A. paniculata is the creat.

an'dro-graph'o-lide (ān'dro-grāi'o-līd; -līd), n. [Androg-raphis + -olide.] Chem. A colorless crystalline compound, CmHmOs, found in the creat. It is the lactone of an'dro-graph-ol'ic ac'id (-graf-ol'ik; -o'lik), CollaO.

Andrew Aguecheek, Sir. See Andrew Aguecheek, Sir. See Andrew (andorka), n. = MI-

hal (an-droj I-nal;-n'l), adj. Androgynous. Rare. an dros y nar'y (-ner'l or, esp. livit., ner'l), adj. [andro-+ Gr. owne woman.] Bot. Having double flowers with petaloid stamens and pistils.

an'dro-gyne (ăn'dro-jîn; -jîn), n. [F. Sec ANDROGYNOUS.] 1. A hermaphrodite. 2. a An esseminate man. b A eunuch. c A virile or mas-

culine woman. 3. Bot. An androgynous plant.

an'dro-gy-ne'i-ty (-ji-ne'i-ti), n. Androsyny. an-drog'y-nism (an-droj'i-niz'm), n. 1. Hermaphroditism. 2. Quality or state of being androgynous.

an-drog'y-nous (-nus), adj. [L. androgynus, fr. Gr. androyynos, fr. aner, andros, man + oyne woman.]

1. Having the characteristics of both sexes; being in nature both male and female; hermaphroditic.

The truth is, a great mind must be androgynous. Astrol. Sometimes hot and sometimes cold; - of planets. 3. Bot. Bearing both staminate and pistillate flowers in the same cluster.

an-drog'y-nus (-nus), n. [NL.] Med. An androgyne. an-drogyy-ny (-ni), n. a Hermaphroditism. b Esseminacy. an'droid (an'droid), n. Also an-droi'des (an-droi'dez).

[Gr. androeides of man's form.] An automaton of human form.—an-droi'dal (an-droi'dal; -d'l), adj.

an-drok'i-nin (an-drok'i-nin), n. [andro-+ Gr. kinein to move.] Biochem. The male sexual hormone.

an'drol (an'drol; -drol), n. [From phellandrium + 1st-ol.]

Chem. A liquid alcohol, Civil DO, found in oil of water
fennel (Oenanthe phellandrium).

an'dro-lep'si-a (ăn'dro-lep'sy-d), an'dro-lep'sy (ăn'dro-lep'si-sī), n. [NL. androlepsia, fr. Gr. androlepsia, fr. anër, andros, man + lepsis a seizing.] Law. The seizure by one nation of the citizens or subjects of another to compel the latter to do justice to the former, or to enforce some right claimed by the former against the latter.

claimed by the former against the latter.

Androm'a.che (ăn-drom'à.kc), n. [L., fr. Gr. Androma.chē.] In Homer's Iliad, the devoted wife of Hector of Troy. When Troy fell, Andromache was allotted to Neoptolemus, or Pyrrhus, son of Achilles. She appears as his wife in Euripides's tragedy Andromache. After Neoptolemus's death, Thetis, mother of Achilles, ordains that Andromache shall wed Helenus, Hector's brother, and found a line of Epirote kings, in which role, submissive and downcast, Vergil introduces her in the Aeneid.

andromachia. (andromachia) and INI... fr. andromachia andromachia.

an'dro ma'ni-a (ăn'dro mā'ni-a), n. [NL., fr. andro + mania.] Med. Nymphomania. An'dro'maque' (än'dro'mak'), n. [F.] The title and heroine of a tragedy by Racine (1667). Cf. Andromache. Androm'e-da (ăn-drom'e-da), n. [L., fr. Gr. Andromedē.]

1. Gr. Myth. Daughter of Cepheus and Cassiopeia, king and queen of Ethionia. and queen of Ethiopia. Cassiopeia having boasted her own beauty equal to that of the Nereids, Poseidon afflicted the land with floods and a devouring monster. The oracle of Zeus Ammon (Jupiter Ammon) decreed that relief could be won only by chaining Andromeda to a cliff, for the monster

the monster and marries Andromeda. 2. genitive ANDROMEDAE (-de). Astron. A northern constellation directly south of Cassiopeia, between Perasus and Perseus, represented pictorially by a woman chained. 3. Bot. a A small genus of north temperate woody plants of the heath family (Ericaceae). A. polifolia, the moorwort, is a low shrub with coriaceous leaves and drooping pinkish flowers in terminal umbels. b [not cap.; pl. -DAS.] A plant of this genus.

G

H

to devour. Perseus, returning from slaying Medusa, kills

An'dro-mede (an'dro-med), An-drom'e-did (an-drom'e-did), n. Astron. One of the meteors formerly appearing in showers, in late November or early December, at intervals of six or seven years, and seeming to radiate from a point in the constellation Andromeda. The showers have been very scanty since 1899. They are called also Bielids, because they are supposed to be fragments of the lost Biela's comet (which see). an-drom'e-do-tox'in (an-drom'e-do-tok'sin), n. Chem. A

toxic crystalline substance, C₁₁H₄O₁₀, existing in various ericaceous plants, esp. in Andromeda and its allies. an'dro-mo-noe'cious (ăn'dro-mo-noe'shus), adj. Also-mone'cious. [andro-+ monoecious.] Bol. Having perfect

and staminate flowers on the same plant. - an'dro-monoe'cism (-siz'm), n. an'dro-mor'phous (-môr'fŭs), adj. [Gr. andromorphos, fr. anër, andros, man + morphe form.] Lit., having a man's form; hence, Med., having a massculine form or appearance.

an'dron (ăn'dron), an'dro-ni'tis (ăn'dro-ni'tis), n. [L., fr. Gr. andron, also andronitis, fr. ancr. andros, man. Class. Antiq. The men's apartment in the Greek house. An'dro-ni'cus (an'dro-ni'kus; this is the classical accentuation; in Shak., Andron'icus. See Titus Andronicus), n. [L., of Gr. origin; cf. Gr. aner, andros, man, and nike victory.] Literally, conqueror of men; — masc. prop. name. an'dro-pet'al-ous (ăn'dro-pet'ci-us), an'dro-pet'al-ar (-cr), adj. [andro-+-petalous.] Bot. Having the stamens converted into petals, as in some double flowers.

an-droph'a-gous (an-drol'à-gus), adj. [Gr. androphagos, fr. aner, andros, man + phagein to eat.] Man-eating. an'dro-pho'bi-a (an'dro-fo'bi-à), n. [NL., fr. andro-+ -phobia.] Morbid dread of men; repugnance to the male sex. an'dro-pho'no-ma'ni-a (-fō'nô-ma'ni-a), n. [NL., fr. Gr. androphones manslaying + -mania.] Med. Insanity marked by homicidal tendencies.

an'dro-phore (an'dro-for; 181), n. [andro-+-phore.] 1. Bot. The stalk or column which supports the androecium. 2. Zool. In Siphonophora, a part bearing male gonophores. an-droph'o-rous (an-droi'o-rus), adj. [andro-+-phorous. I Zool. Bearing male sexual organs or zooids. an-droph'o-rum (-rum), n. [NL.] Bot. An androphore. an'dro-phyll (an'dro-fil), n. [andro-+-phyll.] Bot. In

seed plants, a microsporophyll An'dro-po'gon (-pō'gon), n. [NL., fr. andro- + Gr. pōgōn the beard.] Bot. A large and important genus of grasses, found in nearly all parts of the world. It includes the broom sedge A. virginicus and the bluestem A. furcatus. The spikelike racemes have the flowers in pairs, one sterile

and one fertile. An dros'a ce (an dros'a se), n. [L. androsaces, some plant or zoophyte, fr. Gr. androsakes.] Bot. A genus of 60 species of herbs of the primrose family (Primulaceae), natives of the Northern Hemisphere. They have basal tufted leaves, small terminal white or pink flowers, and capsular fruits. fruits. See BOCK JASMINE.

lous. Ref. Sp. [R.S.] an drog/i-nous. Androgynous. an'dro-gone (an'dro-gon), s.

ANDROGONIA. an'dro-gyn (Xn'drô-jin). Var. of ANDROGYNE. an'dro-gyn'i-a (In'dro-jin'i-d), a. [NL.] = ANDROCYNY. Andronicus, Titus. See Trros ANDRONICUS. [GUNTACOOK_ An'dros-cog'gin, n. = AROSA-

out, oil; cube, ûnite, ûm, up, circus, menu; chair; go; sing; then, thin; nature, verdûre (249); $\kappa = ch$ in G. ich, ach (109); bon; yet; zh = z in azure. Numbers within pronunciation parentheses here and in vocabulary refer to \ in Pron., preceding the Vocabulary.

VEBSPIER'S NEW ITTERNATIONAL DCTIONARY

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MEDITERRANEAN

FASHIONED refer to something dating from the pas Ancient implies existence or first occurrence in a distant past: an ancient custom. Antiqued connotes something too old or no longer useful: an antiquated building. An-TIQUE suggests a curious or pleasing quality in something old: antique furniture. OLD-PASHIONED may disparage something as being out of date or may approve some-an-da-lu-site thing old as being superior: an old-fashioned hat; oldfashioned courtesy. —Ant. 2. new.

an-clent² (an/shant), n. Obs. 1. the bearer of a flag. 2. a flag, banner, or standard; ensign. [var. of ensign by confusion with ANCIENT¹]

An/clent Ar/abic Or/der of No/bles of the Mys'tic Shrine'. See under Shriner.

an/cient his/tory, 1. the study or a course of study of history before the end of the Western Roman Empire A.D. 476. 2. Informal. information or events of the recent past which are common knowledge or are no longer pertinent: Last week's news is ancient history.

an-clent-ly (an/shant le), adv. in ancient times; of old: customs observed anciently. [ANCIENT! + -LY] An/cient Mys/tic Or/der Ro/sae Cru/cis. See

under Rosicrucian (def. 2). Abbr.: AMORC An'cient of Days', the Supreme Being; God.

An/cient of Days', The, a hand-colored print by An-da-man-ese (an/da ma nez', -nes'), n., pl. -ese, William Blake, the frontispiece of his poem Europe (1794).

an-cient-ry (an/shen tre), n. 1. Archaic. a. ancient character or style. b. ancient times. 2. Obs. a. ancient lineage. b. old people. [ANCIENT $^1 + -RY$]

an-ci-le (an si/le, äfig ke/la), n., pl. an-cil-i-a (an sil/e ə, ang kil'-). Rom. Religion. 1. a shield given by Mars to Numa Pompilius as the palladium of Rome. 2. any of 11 counterfeits of this shield, carried with it on ceremonial occasions. [< L, equiv. to an- (var. of ambi-AMBI-) + -cile, akin to caedere to cut]

accessory; auxiliary: an ancillary function. [< L ancillari(us) relating to maid-servants, equiv. to ancill(a) maid-servant (anc(ula) maid-servant + -illa dim. suffix) + -ārius -ARY- (r. -āris -AR1)]

an-cip-i-tal (an sip-i t³l), adj. Bot., Zool. two-edged: ancipital stems. [< L ancipit- (s. of anceps) two-headed, two-sided (an-, var. of ambi- AMBI-+ cipit-, var. of caput head) +

-AL1] An·cl·us (an/shē əs, -shəs), n. Class. Myth. a centaur.

An·co·hu·ma (äfig/kō ōō/mä), n. a peak of Mount Sorata. Cf. Sor-

ata, Mount. an.con (afig/kon), n., pl. an.co-nes (ang kō/nēz). 1. the elbow. 2. Arch. a bracket or console, as one supporting part of a cornice. [< L]< Gk ankon elbow] —an-co-nal (afig kon/el), an-co-ne-al (afig ko/në əl), *adj. —*an/con•oid, *adj.*



Ancon

An-con (ang/kon; Sp. an kon/), n. a town in the Canal Zone, near the city of Panama: medical center of the An.der.sen (an/der sen), n. Hans Christian (hanz), Canal Zone. 1946 (1950).

an·co·na (än ko/nä; Eng. ang ko/nə), n., pl. -ne (-ne), Eng. -nas. Italian. an altarpiece, usually consisting of a painted panel or panels, reliefs, or statues set in an elaborate frame.

An-co-na (\ddot{a} n kô/nä), n. 1. a seaport in E Italy, on the Adriatic Sea. 99,678 (1961). 2. one of a Mediterranean breed of chickens having mottled black-and-white plumage.

an cré (ang/krā), adj. Heraldry. (of a cross) having the end of each limb divided and carved outward like anchory. [< F, equiv. to anchre anchor + & (< L An/derson East/Side/, a town in central Indiana. an-dro-co-ni-um (an/dra kō/nē am), n., pl. -ni-a (-nē a).

-atus -atus -atus]

3778 (1960). the flukes of an anchor; moline: a cross ancré. Also,

An·cus Mar·ci·us (afig/kəs mär/shē əs, -shəs), Rom. An·der·son·ville (an/dər sən vil), n. a village in SW

nouns denoting state or quality: brilliancy. [< L -antia, equiv. to -ā- thematic vowel + -nt- prp. suffix an-de-sine (an/di zēn/), n. a mineral, intermediate in An-droc-ra-tes (an drok/ra tēz/), n. Class. Myth. the $+-ia-y^3$

ancylo-, a learned borrowing from Greek meaning "hook," "joint," used in the formation of technical terms: ancyclostomiasis. Also, anchylo-, ankylo-. [< an-des-ite (an/dizīt/), n. a volcanic rock composed Gk ankylo- (s. of ankýlos) crooked, curved, equiv. to ánk(os) bend (c. L uncus bent, E angle to fish with hook

and line) + -ylos adjective-forming suffix] an-cy-los-to-mi-a-sis (an/sə los/tə mi/ə sis), n. thol. hookworm (def. 2). Also, ankylostomiasis. [< NL, equiv. to Ancylostom(a) a genus of hookworms (see

ANCYLO-, STOMA) + -iasis - IASIS]and (and; unstressed and, an), conj. 1. (used to connect An-dhra Pra-desh (än/dra pra-dash/), a state in SE GAMONE]
grammatically coordinate words, phrases, or clauses) India, formed from portions of Madras and Hyderabad an-dro-gen (an/dra jan), n. Biochem. any substance, grammatically coordinate words, phrases, or clauses) with; along with; together with; added to; in addition to; besides; also; moreover: pens and pencils. 2. as well as: nice and warm. 3. then: He read for an hour and went An-die (an/de), n. a boy's or girl's to bed. 4. also, at the same time: to sleep and dream. 5. again then again; then once more: He coughed and An.di-ki-thi-ra (an/da ki ther/a; coughed. 6. as opposed to different examples of the same kind: There are dogs and dogs, some mean, some friendly. 7. (used to introduce a sentence, implying continuation) also; then: And he said unto Moses. 8. to (used between two finite verbs): Try and do it. 9. Archaic or Dial. if: and you please. Cf. an². 10. and so forth, and so on; and others; et cetera: We discussed traveling, sightseeing, and so forth. 11. and so on, and more of a similar kind; and further in the same way: It was a summer filled with parties, picnics, and so on. -n. 12. an added condition or stipulation: He accepted the job, no and about it. 13. Often, ands. an additional detail or particular: It was a long story, with many ands. [ME; OE and, ond; c. OS, OHG ant, OFris, Goth and, Icel and-; akin to G und, D en Skt anti, etc.]

-Usage. Since etc. is an abbreviation for et cetera which means "and others," the form AND ETC. is condemned as being redundant. Use erc. or and others or an.do.ro.ba (an/də ro/bə), n. carapa. [< Tupi < Sp AND SO FORTH instead.

and.. Music andanta.

·da·lu·sia (an/dəlöö/zhə, -şhē ə), n. a region in Spain, bordering on the Atlantic Ocean and the

Mediterranean Sea. 33,712 sq. mi. Spanish, An-da-

—An/da·lu/sian, adj. n. (an/dəloo'sit), n. Mineral. an orthorhombic form of aluminum silicate, Al₂SiO₅, found in schistose rocks. Inamed after Andalusia. where it was first found; see -ITE¹]

lu-ci-a (an/da loo the/a).

An·da·man (an/də mən), adj. 1. Also, Andamanese. of or pertaining to the Andaman Islands, their inhabitants, or the inhabitants' language. -n. 2. Andamanese (def. 1).



An/daman and Nic/o·bar Is/lands (nik/ə bär/, nik/a bar/), a centrally administered territory of India,

adj. -n. 1. Also, Andaman. Also called An'daman Is'-Islands. 2. the language of the Andamanese, not known connect it with Dravidian and with the aboriginal languages of Australia. —adj. 3. Andaman (def. 1). [Andaman + -ese]

An'daman Is'lands, a group of islands in the E part of the Bay of Bengal, W of the Malay Peninsula. 18,939 (1951); 2508 sq. mi.

An/daman Sea/, a part of the Bay of Bengal, E of the Andaman and Nicobar islands, 30,000 sq. mi.

an dan te (an dan tē, an dan tā; It. an dan te), adj., adv., n., pl. -tes. Music. —adj., adv. 1. moderately An'drew of Crete', A.D. c650-730, Greek Orthodox slow and even. -n. 2. an andante movement or piece. Abbr.: and. [< It: lit., walking (prp. of andare to walk); 500 -ANT]

an dan ti no (an/dan tē/nō, an/dan tē/nô), adj., adv., n., pl. -nos, It. -na (-nä). Music. -adj., adv. 1. slightly faster than and ante. —n. 2. an and antino + -ino dim. suffix]

An-de-an (an de-an, an-de-), adj. of or like the Andes. [Ande(8) + -An]

Ande/an con/dor. See under condor (def. 1). Ande/an deer/, huemul.

An-dee-na (an $d\bar{e}/n\bar{e}$), n. a girl's given name.

An.del (an/del), n. a walled plain in the fourth quadrant of the face of the moon: about 19 miles in diameter. An-de-lee (an/d=le/), n. a girl's given name.

Belgium, near Brussels. 93,734 (est. 1959).

1805-75, Danish author, esp. of fairy tales.

Ander sen Nex ö (ä/nər sən nik/sœ). See Nexö, Martin Andersen.

An-der-son (an/der sen), n. 1. Carl David, born 1905, U.S. physicist; discoverer of the positron: Nobel prize 1936. 2. Dame Judith, born 1898, Australian actress in the U.S. 3. Marian, born 1908, U.S. contraito. An/drocles and the Li/on, a comedy (1913) by 4. Maxwell, 1888-1959, U.S. dramatist. 5. Sherwood, G. B. Shaw. South Carolina, 41,316 (1960). 8. a town in N California. 4492 (1960).

Legend. a king of Rome, during whose reign the first Georgia: site of a Confederate military prison. 263 (1960). bridge across the Tiber is believed to have been con- An-des (an/dez), n. (construed as pl.) a mountain range structed.
in W South America, extending ab. 4500 mi. from an-droc-ra-cy (an drok/ra sē), n. social rule by men.
-ancy, a combination of -ance and -y, used to form N Colombia and Venezuela S to Cape Horn. Highest [ANDRO- + -CRACY] —an-dro-crat-ic (an/dra krat/ik), peak, Aconcagua, 22,834 ft.

the plagioclase feldspar group, having a play of colors hero who founded Plataea. and usually found as crystals in igneous rocks. [named an.dro.di.oe.cious (an/dro di e/shes), adj. after Andes; see -ine2]

essentially of plagioclase feldspar, resembling trachyte

Pa- An'des light/ning, an electrical discharge of the andr-ANDR-+ oikfon, dim. of oikos house —an-droe-NL, corona type, occurring over mountains when the area is cial (an dre/shel), adj.

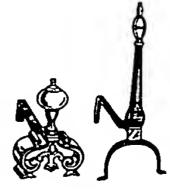
(see electrically disturbed. Also called An'des glow', an-dro-gam-one (an'dre gam'on), n. Biochem. a An'des lights'.

states 1956. 35,983,447 (1961);

105,963 sq. mi. Cap.: Hyderabad. given name. Also, Andy.

Gk. än/de ke/the ra) n. Antiky-

and-i-ron (and-iern), n. one of a pair of metal stands, usually of iron or brass, for supporting logs in a fireplace. [ME aundyr(n)e < OF andier.? < Gaulish *andera heifer (through use of cows' heads as decorations on andirons); -iron by assoc. with iron]



Andirons

An·di·zhan (än/di zhän/), n. a city in E. Uzbekistan, in the SW Soviet Union in Asia. 129,000 (1959).

and/or, used to indicate that either "and" or "or" is appropriate for linking two words, phrases, or the like: insurance to cover fire and/or theft.

Andorer (Ealach ne n. e. elander) a n a re-

c in the E Pyrenees between France and Spain, er the joint suzerainty of France and the Spanish Bishop of Urgel. 7000 (est.

1959). 191 sq. mi. Cap.: Andorra. French, Andorre (än dôn/). —Andor/ran, adj.

andr-, var. of andro- before a vowel: androecium. An · dra · da e Sil · va (ann dra/də e sēl/və), José Boni-fa-ciode (zhô ze/ bô/në fä/syðó də), 1763-1838, Brazilian statesman and scientist.

an · dra · dite (an/dradit/), n. a mineral, calcium-iron garnet, Ca₃Fe₂-Si₃O₂, occurring in brown, green, or black crystals.

named after J. B. d'Andradae Silva; see -ite1] An-drás-sy (an dras/e; Hung. on/drä she), n. 1. Count

nik/ə bar/), a centrally administered territory of the comprising two groups of islands in the E part of the Bay of Bengal, SW of Burma. 63,548 (1961); 3143 sq. mi. An.dré (an/drā or, for 1, an/drē; for 2 also Fr. an drā/), n. 1. John, 1751-80, British major hanged as a spy by n. 1. John, 1751-80, British major war. 2. a boy's given name, French form of Andrew.

lander. a member of a Negrito people of the Andaman An-dre-a (an/dre-a, an/-, an dra/-), n. a boy's or girl's given name.

to be related to any other language despite attempts to An.dre.a del Sar.to (an dra/a del sar/to; It. andramatic monologue (1855) by Robert Browning.

An·dre·a/nof Is/lands (an/dre an/of; Russ. an/drea'nof), a group of islands in the W part of the Aleutian Islands. 1432 sq. mi.

An·dre·ev (än dre/yəf), n. An·drei Au·dre·evich (änan-cil·la (an sil/ə), n., pl. -las. 1. an accessory; the Andaman and Nicobar islands. 30,000 sq. mi.

auxiliary or adjunct. 2. Archaic. a maidservant. [see an-da-men-to (an/də men/tō; It. an/da men/tō), n., An-drew (an/drōō), n. 1. one of the 12 apostles of pl. -tos, It. -ta (-tä). Music. 1. an extended fugue Jesus. Mark 3:18; John 1:40-42. 2. a boy's given name. subject. 2. an episode in a fugue. [< It, equiv. to An-drewes (an/drōoz), n. Lancelot, 1555-1626, anda(re) to walk, proceed + -mento -mento.

English theologian: one of the Rible ized Version of the Bible.

> archbishop of Crete; poet; reputed inventor of the musical canon.

An-drews (an/drooz), n. 1. Charles Mc-Lean (maklān'), 1863-1943, U.S. historian and author. 2. Roy Chapman, 1884-1960, U.S. naturalist, explorer, and author. 3. a town in E South Carolina. 2995 (1960).

movement or piece. [< It, equiv. to andan(le) walking An-dre-yev (an dre-yef), n. Le-o-nid Ni-ko-la-e-vich (le o nēt/ ni ko lä/yə vich), 1871-1919, Russian novelist. short-story writer, and playwright. Also, An-dre/ev.

An·drić (an/drich), n. I·vo (e/vô), born 1892, Yugoslavian poet, novelist, and short-story writer: Nobel prize 1961.

An-dri-ette (an/dre et/), n. a girl's given name. andro-, a learned borrowing from Greek meaning "male," used in the formation of compound words: androsterone. Also, andr-, -androus. [< Gk andro(s), gen. of aner old man; akin to Skt nara-. L Nero]

An-der-lecht (än/dər lekht/), n. a city in central an-dro-cen-tric (an/drə sen/trik), adj. dominated by males or by masculine interests: an androcentric society. [ANDRO- + CENTRIC]

> An·dro·cle·a (an/drō klē/ə), n. Class. Myth. a daughter of Antipoenus of Thebes. Cf. Alcis.

> An-dro-cles (an/dra klēz/), n. a legendary Roman slave who was spared in the arena by a lion from whose foot he had long before extracted a thorn. Also, An-dro-

> clus (an/drə kləs).

1876-1941, U.S. novelist and short-story writer. 6. a an-dro-clin-i-um (an/dro klin/ē əm), n., pl. -clin-i-a city in central Indiana, 49,061 (1960). 7. a city in NW (-klin/ē ə). Bot. clinandrium. [< NL, equiv. to andro--ANDRO- + -clinium < Gk klinion, dim. of kline bed: see

> a scale on the forewing of certain male butterflies from which an odor attractive to females is emitted. [< NL. equiv. to andro-ANDRO- + -conium < Gk konion, neut. of kónios dusty (kóni(s) dust + -os adj. suffix)]

having staminate and monoclinous flowers on separate plants of the same species. [ANDRO- + DIOECIOUS] —an-dro-di-oe-cism (an'drō dī ē'siz əm), n.

in appearance. [named after Andes; see -ite] —ande-sit-ic (an/di zit/ik), adj.

An/des light/ning, an electrical discharge of the corona type, occurring over mountains when the area is

an-droe-ci·um (an drē/shē əm), n., pl. -ci·a (-shē ə).

Bot. the stamens of a flower collectively. [< NL < Gk
andr-Androe-ci·um (an drē/shē əm), n., pl. -ci·a (-shē ə).

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Bot. the stamens of a flower collectively. [< NL < Gk
andr-Androe-ci·um (an drē/shē əm), n., pl. -ci·a (-shē ə).

gamone liberated by a male gamete. [ANDRO- + GAMONE]

natural or synthetic, that promotes masculine characteristics. [ANDRO- + -GEN] —an-dro-gen-ic (an/drajen'ik), adj.

An·drog·e·us (an droj/ē əs), n. Class. Myth. a son of Minos and Pasiphaë who fell victim to the machinations of Athenian King Aegeus: in revenge for his son's death, Minos waged war on the Athenians and forced them to send a tribute of seven maidens and seven youths to the Minotaur every nine years.

an-dro-gyne (an/dra jin/), n. an androgynous organism. [< MF < L androgyn(us) < Gk androgynos hermaphrodite, equiv. to andro-ANDRO- + gyn-GYN- + -os masc. n. suffix]

an.drog.y.nous (an droj/e nes), adj. 1. Bot. having staminate and pistillate flowers in the same inflorescence. 2. being both male and female; hermaphroditic. [ANdrogyne + -ous] -an-drog/y-ny, n.

An·drom·a·che (an drom/a ke/), n. 1. Class. Myth. the wife of Hector and mother of Astyanax. 2. (italics.) a tragedy (c419 B.c.) by Euripides. An-dro-maque (an drô mak/), n. a tragedy (1667) by

Racine. an-drom-e-da (an drom/i da), n. See Japanese

Consistent to some leinand and Aumpournel